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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,358	07/26/2006	Juho Salo	1034456-000050	6649

21839 7590 10/22/2007  
BUCHANAN, INGERSOLL & ROONEY PC  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404

EXAMINER
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LE, THANH TAM T

ART UNIT	PAPER NUMBER
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2839

NOTIFICATION DATE	DELIVERY MODE
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10/22/2007

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com  
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<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/587,358	SALO ET AL.	
	Examiner	Art Unit	
	Thanh-Tam T. Le	2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 July 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 July 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/26/06</u> | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Objections*

1. Claim 1, line 3, "the fuse" lacks an antecedent basis.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Mrenna et al. (3,984,801).

Mrenna et al., figures 1 and 4-5 show a fuse holder (10) comprising a frame (12), spring means (42) and limiter means (not labeled), the frame comprising a first contact member (28) and a second contact member (30 ) adapted to receive an end of a fuse (16) between them, the spring means being adapted to press the contact members against the fuse end (column 2, lines 59-62) to achieve an electrically conductive connection between the contact members and the fuse end, and the limiter means being adapted to define the largest possible depth of the fuse end in the installation direction between the first and second contact members,

wherein the spring means comprise a ring spring (42) having substantially a form of a circular arch and adapted to also serve as the limiter means.

Regarding claim 2, the ring spring is placed in such a manner that when the

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fuse end is at said largest possible depth in the installation direction between the contact members, the fuse end is in contact with a middle portion located between the ends of the ring spring.

Regarding claim 3, figure 4 shows the ring spring is located substantially on a plane that is at a predetermined angle relative to the installation direction of the fuse end.

Regarding claim 4, said predetermined angle is between  $0^{\circ}$  and  $45^{\circ}$ .

Regarding claim 5, the frame is provided with means (not labeled) for holding the ends of the ring spring in place.

Regarding claim 7, figure 4 shows the frame is provided with means (40) for supporting a middle portion located between the ends of the ring spring.

Regarding claim 8, the means for supporting the middle portion located between the ends of the ring spring are adapted to support the middle portion of the ring spring in a direction opposite relative to the installation direction of the fuse end.

Regarding claim 9, the means for supporting the middle portion located between the ends of the ring spring are adapted to prevent the ring spring from rotating around an axis passign via its ends.

Regarding claim 10, figure 5 shows the cross-section of the frame is substantially U-shaped in such a manner that a first branch (24) of the frame comprises the first contact member (28), and a second branch (26) of the frame comprises the second contact member (30).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mrenna et al. in view of Jego et al. (4,776,817).

Mrenna et al. disclose the claimed invention as described in claim 5 except for the means for holding the ends of the spring comprise two recesses provided in the frame.

Jego et al., figures 3 and 4 show a conducting clip (10) having two anchorage housings (38 and 39) which read as recesses. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Mrenna et al. to have the anchorage housings, as taught by Jego et al. in order to provide more stability between the ring spring and the frame.

***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.
7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thanh-Tam T. Le  
Primary Examiner  
Art Unit 2839

TL.  
10/15/07.